Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-19. (Cancelled)

20. (Previously Presented) System for producing a stereoscopic image of an object, and displaying the stereoscopic image, the system comprising:

a capsule; and

a control unit;

said capsule comprising:

a sensor assembly;

a processor connected to said sensor assembly;

a capsule transceiver connected to said processor;

at least one dispensing compartment containing a medical substance and comprising a door mechanism, and each of said door mechanisms is connected to said processor, wherein each of said at least one dispensing compartments releases a selected amount of said medical substance according to a command provided by said processor to said door mechanism;

a light source; and

a power supply for supplying power to said capsule transceiver, said processor, said light source and to said sensor assembly;

wherein, said sensor assembly detects said stereoscopic image, said processor captures said stereoscopic image, said capsule transceiver transmits said stereoscopic image to said control unit transceiver and said image processing system processes said stereoscopic image.

21. (Previously Presented) System for producing a stereoscopic image of an object, and displaying the stereoscopic image, the system comprising:

a capsule; and

a control unit;

said capsule comprising:

a sensor assembly;

a processor connected to said sensor assembly;

at least one collecting compartment collecting a bodily substance and comprising a door mechanism, and each of said door mechanisms is connected to said processor, wherein each of said at least one collecting compartments collects a selected amount of said bodily substance according to a command which said processor provides said door mechanism;

a capsule transceiver connected to said processor;

a power supply for supplying power to said capsule transceiver, said processor, said light source and to said sensor assembly;

wherein, said sensor assembly detects said stereoscopic image, said processor captures said stereoscopic image, said capsule transceiver transmits said stereoscopic image to said control unit transceiver and said image processing system processes said stereoscopic image.

22-50. (Cancelled)

51. (Previously Presented) System for producing a stereoscopic image of an object, and displaying the stereoscopic image, the system comprising:

a capsule; and

a control unit;

said capsule comprising:

a sensor assembly comprising:

at least two apertures, each said at least two apertures includes a light valve, each said light valves being operative to open at different predetermined timing; and

a light sensor array,

wherein said light sensor array detects a plurality of images, each of said images corresponds to an open state of a selected one of said light valves;

a processor connected to said sensor assembly;

a capsule transceiver connected to said processor;

a light source, wherein said light source surrounds said at least two apertures; and

a power supply for supplying power to said capsule transceiver, said processor, said light source and to said sensor assembly;

wherein, said sensor assembly detects said stereoscopic image, said processor captures said stereoscopic image, said capsule transceiver transmits said stereoscopic image to said control unit transceiver and said image processing system processes said stereoscopic image.

52. (Cancelled)

53. (Previously Presented) System for producing a stereoscopic image of an object, and displaying the stereoscopic image, the system comprising:

a capsule; and

a control unit;

said capsule comprising:

a sensor assembly comprising:

a lower light sensor array connected to said processor;

an upper light sensor array connected to said processor, an upper light sensor array detecting surface faces a direction opposite to the direction of a lower light sensor array detecting surface;

a lower mirror facing said lower light sensor array detecting surface;

an upper mirror facing said upper light sensor array detecting surface; and

an optical assembly located between said lower mirror, said upper mirror and said object for directing light beams from said object to said lower mirror and to said upper mirror, and

wherein each of said lower light sensor array and said upper light sensor array includes a plurality of light sensors, and

wherein said optical assembly directs at least one light beam from a first portion of said object to said lower mirror, and said optical assembly directs at least one light beam from a second portion of said object to said upper mirror, and

wherein said lower mirror reflects said at least one light beam from said first portion to said lower light sensor array detecting surface, said upper mirror reflects said at least one light beam from said second portion to said upper light sensor detecting surface, and

wherein said lower light sensor array detects an image of said first portion and said upper light sensor array detects an image of said second portion;

a processor connected to said sensor assembly;

a capsule transceiver connected to said processor;

a power supply for supplying power to said capsule transceiver, said processor, said light source and to said sensor assembly;

wherein, said sensor assembly detects said stereoscopic image, said processor captures said stereoscopic image, said capsule transceiver transmits said stereoscopic image to said control unit transceiver and said image processing system processes said stereoscopic image.

54. (Original) The system according to claim 53, wherein said light source produces at least two alternating beams of light, each said alternating beams of light characterized as being in a different range of wavelengths.

55. (Original) The system according to claim 53, wherein said light source produces light in a predetermined range of wavelengths.

56. (Original) The system according to claim 53, wherein said lower light sensor array includes at least two groups of sensors, the sensors of each said group detect light in a different range of wavelengths.

57. (Original) The system according to claim 53, wherein said upper light sensor array includes at least two groups of sensors, the sensors of each said group detect light in a different range of wavelengths.

58. (Original) The system according to claim 53, wherein said lower light sensor array includes a plurality of sensors, each said sensors detects light in a predetermined range of wavelengths.

59. (Original) The system according to claim 53, wherein said upper light sensor array includes a plurality of sensors, each said sensors detects light in a predetermined range of wavelengths.

60. (Original) The system according to claim 54, wherein each of said different ranges of wavelengths associated with said light source, is selected from the list consisting of:

substantially visible red color light;

substantially visible green color light;

substantially visible blue color light;

substantially visible cyan color light;

substantially visible yellow color light;

substantially visible magenta color light;

substantially infra-red light;

substantially ultra-violet light; and

visible light.

61. (Original) The system according to claim 56, wherein each said different ranges of wavelengths associated with said sensors, is selected from the list consisting of:

substantially visible red color light;

substantially visible green color light;

substantially visible blue color light;

substantially visible cyan color light;

substantially visible yellow color light;

substantially visible magenta color light;

substantially infra-red light;

substantially ultra-violet light; and

visible light.

62. (Original) The system according to claim 57, wherein each said different ranges of wavelengths associated with said sensors, is selected from the list consisting of:

substantially visible red color light;

substantially visible green color light;

substantially visible blue color light;

substantially visible cyan color light;

substantially visible yellow color light;

substantially visible magenta color light;

substantially infra-red light;

substantially ultra-violet light; and

visible light.

63. (Original) The system according to claim 58, wherein each said predetermined ranges of wavelengths associated with said sensors, is selected from the list consisting of:

substantially visible red color light;

substantially visible green color light;

substantially visible blue color light;

substantially visible cyan color light;

substantially visible yellow color light;

substantially visible magenta color light;

substantially infra-red light;

substantially ultra-violet light; and

visible light.

64. (Original) The system according to claim 59, wherein each said predetermined ranges of wavelengths associated with said sensors, is selected from the list consisting of:

substantially visible red color light;

substantially visible green color light;

substantially visible blue color light;

substantially visible cyan color light;

substantially visible yellow color light;

substantially visible magenta color light;

substantially infra-red light;

substantially ultra-violet light; and

visible light.

65. (Original) The system according to claim 53, wherein said lower light sensor array is a color red-green-blue (RGB) sensor array.

66. (Original) The system according to claim 53, wherein said upper light sensor array is a color red-green-blue (RGB) sensor array.

67. (Original) The system according to claim 53, wherein said lower light sensor array is a color cyan-yellow-magenta-green (CYMG) sensor array.

68. (Original) The system according to claim 53, wherein said upper light sensor array is a color cyan-yellow-magenta-green (CYMG) sensor array.

69. (Original) The system according to claim 53, wherein said lower mirror is convex.

70. (Original) The system according to claim 53, wherein said upper mirror is convex.

71-72. (Cancelled)